

L Number	Hits	Search Text	DB	Time stamp
-	6	best adj fit adj cluster\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 33
-	12027	champion adj chalenge clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 34
-	11	champion adj challenger	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 12: 57
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-	669	marketing adj strategy	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13: 02
-	0	champion\$1challenger and (marketing adj strategy)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13: 02
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-	3	((marketing adj strategy) and cluster\$3) and best adj fit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13: 48
-	0	6567786.URPN.	USPAT	2003/10/09 13: 05
-	19	("4908761" "5227874" "5278751" "5717923" "5740549" "5758257" "5774868" "5819241" "5819285" "5832457" "5914670" "5930764" "5933811" "5937387" "5940809" "5946661" "5970464" "6267672" "6286005").PN.	USPAT	2003/10/09 13: 06
-	42	5,659,626	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13: 49
-	1	5,659,626.pn.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13: 49
-	16	(bestfit or(best adj fit) or best-fit) adj (cluster\$3 or segment\$6)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14: 35
-	0	6438579.URPN.	USPAT	2003/10/09 13: 57
-	12	("5237157" "5678041" "5724567" "5918213" "5963916" "5991799" "6041311" "6049777" "6092049" "6112186" "6330592" "6334127").PN.	USPAT	2003/10/09 13: 57

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-	44	(bestfit and clustering) and survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14: 47
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-	3258	707/10.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 20
-	2605	707/104.1.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 20
-	1	(707/6.ccls. 707/10.ccls. 707/104.1.ccls.) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 20
-	366	(707/6.ccls. 707/10.ccls. 707/104.1.ccls.) and clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 20
-	30	((707/6.ccls. 707/10.ccls. 707/104.1.ccls.) and clustering) and survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 21
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-	1086	705/10.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 08: 24
-	1	(705/14.ccls. 705/10.ccls.) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 21
-	79	(705/14.ccls. 705/10.ccls.) and clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 21
-	0	706/45.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 21
-	598	706/45.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 21
-	109	706/48.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 21
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-	1	(706/45.ccls. 706/48.ccls. 706/52.ccls.) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16: 22

-	0	survey adj question&5	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 09: 34
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-	442	survey adj question\$5	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 09: 34
-	3	(survey adj question\$5) with effectiveness	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 09: 46
-	18	("4483681" "4755045" "5227874" "5243517" "5870559" "5878384" "5911581" "5945991" "5951642" "5968125" "6006197" "6008807" "6070145" "6144991" "6228038" "6260064" "6275854" "6286005").PN.	USPAT	2003/10/10 09: 40
-	12	(survey adj question\$5) same effectiveness	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 10
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-	4	("4191472" "4464122" "5083270" "5857174").PN.	USPAT	2003/10/10 10: 08
-	5	6038554.URPN.	USPAT	2003/10/10 10: 08
-	1154	survey.ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 10
-	1	(survey near question).ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 10
-	2	(survey and question).ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 11
-	0	(select\$3survey).ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 11
-	7	(select\$3 and survey).ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 28
-	8	("5227874" "5566291" "5675510" "5710887" "5717860" "5740035" "5749075" "5806043").PN.	USPAT	2003/10/10 10: 12
-	6	(select\$3 chos\$3) adj survey adj question	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 47
-	24	("5517405" "5574828" "5727950" "5810599" "5862223" "5873049" "5879163" "5905942" "5909679" "5918208" "5920856" "5930471" "5933136" "5933816" "5948054" "5963939" "5963951" "5966695" "5974446" "6070143" "6093026" "6151581" "6189029" "6256614" "2001/0052009").PN.	USPAT	2003/10/10 10: 31
-	5	("4816904" "5553145" "5557773" "5725384" "5740035").PN.	USPAT	2003/10/10 10: 38
-	0	potential adj survey adj question	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 48
-	8	possible adj survey adj question	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 10: 50
-	0	survey adj question adj development	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 12: 06
-	68	effective\$4 adj score	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 12: 11

-	1086	705/10.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 12: 11
-	312	705/10.ccls. and survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 12: 11
-	78	(705/10.ccls. and survey) and score	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 12: 11
-	48	((705/10.ccls. and survey) and score) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/10 13: 22
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-	25	((survey adj system) and (@rlad<=20010131 or @ad<=20010131)) and score	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 08: 25
-	382	response adj distribution	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 08: 24
-	288	(response adj distribution) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 08: 59
-	9	("4847784" "5574828" "5692906" "5727950" "5749736" "5797753" "5870768" "5875431" "6064856").PN.	USPAT	2003/10/14 08: 55
-	6	"5855011"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 09: 31
-	25	(number adj response) with divid\$3 with total	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 11: 49
-	0	babbitt adj score	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/14 11: 49
-	4	survey adj questionnaire	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/17 14: 20
-	161	survey adj design\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/17 14: 25
-	139	(survey adj design\$3) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 14: 00
-	1	(remove delete) adj survey adj question	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/17 15: 46
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-	140	(remov\$3 delet\$3) adj question	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/17 15: 47
-	11	((remov\$3 delet\$3) adj question) same survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/17 15: 47

-	393	potential adj effectiveness	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 13: 33
-	37	(potential adj effectiveness) and survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 13: 59
-	527	survey adj question\$5	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 13: 59
-	358	(survey adj question\$5) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 09: 33
-	1	(survey adj researcher) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 09: 46
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-	13	(modify\$3 adj survey) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 09: 56
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-	2546	(survey and score) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 11: 11
-	102	(box adj score) and (@rlad<=20010131 or @ad<=20010131)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 11: 12
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2 The Unstoppable Orchestra: a responsive distributed application

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1 Randomizing survey question order vs. grouping questions by constructing an empirical test of the impact on apparent reliabilities and links to related constructs

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2 Measuring perceptions and expectations of service quality

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3 The effect of a nominal monetary gift and different contacting approaches on mail survey response among engineers

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1 [A new responsive distributed shortest-path routing algorithm](#)

B. Rajagopalan, M. Fairman

August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols**, Volume 19 Issue 4

Full text available:  [pdf\(1.02 MB\)](#)

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Distributed shortest-path routing algorithms based on the Ford-Fulkerson method are simple to implement but they suffer from the cost-dependent looping problem: when link costs increase, routing table loops may form and convergence to correct paths may be too slow, depending on link costs. This problem can be eliminated if constraints are imposed on the order in which routing tables are updated at different nodes but the resulting internode protocols tend to be relatively c ...

2 [Shortest paths and loop-free routing in dynamic networks](#)

B. Awerbuch

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols**, Volume 20 Issue 4

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In this paper, we survey the existing methods for designing shortest paths routing algorithms for dynamic networks. We compare them based on worst-case communication and message complexity, and suggest new approach that yields a protocol with linear time and polynomial communication. The main idea behind our approach is to use a "dynamic synchronizer", which transforms a dynamic asynchronous network into static synchronous one. We believe this is an important methodol ...

3 [Maximizable routing metrics](#)

Mohamed G. Gouda, Marco Schneider

August 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 4

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We present a simple theory for maximizable routing metrics. First, we give a formal definition of routing metrics and identify two important properties: boundedness and monotonicity. We show that these two properties are both necessary and sufficient for a routing metric to be maximizable in any network. We show how to combine two (or more) routing metrics into a single composite metric such that if the original metrics are both

bounded and monotonic (and, hence, maximizable), then the composite ...

Keywords: communication system routing, communication system signaling, computer networks, distance vector, distributed algorithms, link state, protocols, routing, routing metrics, trees (graphs)

4 Visualization of roughness in musical consonance

Florian H. Sobieczky

October 1996 **Proceedings of the 7th conference on Visualization '96**

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Additional Information: [full citation](#), [citations](#), [index terms](#)



5 A distributed routing algorithm for mobile wireless networks

M. Scott Corson, Anthony Ephremides

February 1995 **Wireless Networks**, Volume 1 Issue 1

Full text available:  pdf(1.92 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a loop-free, distributed routing protocol for mobile packet radio networks. The protocol is intended for use in networks where the rate of topological change is not so fast as to make "flooding" the only possible routing method, but not so slow as to make one of the existing protocols for a nearly-static topology applicable. The routing algorithm adapts asynchronously in a distributed fashion to arbitrary changes in topology in the absence of global topological knowle ...



6 Performance comparison of routing protocols using MaRS: distance-vector versus link-state

A. Udaya Shankar, Cengiz Alaettinoğlu, Ibrahim Matta, Klaudia Dussa-Zieger

June 1992 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1992 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems**, Volume 20 Issue 1

Full text available:  pdf(1.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There are two approaches to adaptive routing protocols for wide-area store-and-forward networks: distance-vector and link-state. Distance-vector algorithms use $O(N \times e)$ storage at each node, whereas link-state algorithms use $O(N^2)$, where N is the number of nodes in the network and e is the average degree of a node. The ARPANET started with a distance-vector algorithm (Distributed Bellman-Ford), but beca ...



7 Interactive posters: internet: A taxonomic analysis of what world wide web activities significantly impact people's decisions and actions

Julie B. Morrison, Peter Pirolli, Stuart K. Card

March 2001 **CHI '01 extended abstracts on Human factors in computing systems**

Full text available:  pdf(167.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present three taxonomic classification schemes based on Web users' responses to what Web activities significantly impacted their decisions and actions. The taxonomic classifications focus on three variables: the *Purpose* of people's search on the Web, the *Method* people use to find information, and the *Content* of the information for which they are searching. These taxonomies are useful for understanding people's activity on the Web and for developing ecologic ...



Keywords: information foraging, taxonomy, web usability

8 On determining the distribution of software response times

Charles M. Shub

December 1985 **Proceedings of the 17th conference on Winter simulation**


Full text available:  pdf(547.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper reports on a simulation model for predicting software response time in symmetric distributed computing systems. This model extends previous work by considering a collection of similar processing elements connected together by some interconnection mechanism. The model also extends previous work by considering stimuli that require processing at multiple priority levels. The paper begins by describing the nature of the problem. In this section, the overall problem is deco ...

9 A resilient distributed protocol for network synchronization

I A Cimet, P R Srikanta Kumar

September 1986 **Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols**

Full text available:  pdf(813.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a resilient distributed protocol that enables a synchronous algorithm to run on an asynchronous network. The protocol is resilient in the sense that it can continue providing network synchronization in the presence of topological changes in the underlying communication network of a distributed system. These changes are caused by link/node failures and recoveries that occur while running the protocol. In general, the protocol is a useful tool in the design of resilient distributed ...

10 Session 5: Optimal plans for aggregation

Andrei Broder, Michael Mitzenmacher

July 2002 **Proceedings of the twenty-first annual symposium on Principles of distributed computing**

Full text available:  pdf(927.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We consider the following problem, which arises in the context of distributed Web computations. An *aggregator* aims to combine specific data from n sources. The aggregator contacts all sources at once. The time for each source to return its data to the aggregator is independent and identically distributed according to a known distribution. The aggregator at some point stops waiting for data and returns an answer depending only on the data received so far. If the aggregator returns t ...

11 An architecture for network-layer routing in OSI

P. F. Tsuchiya

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available:  pdf(663.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Work on the standardization of routing protocols for OSI is in progress. The envisioned set of routing protocols is expected to work in nearly all of the environments which constitute OSI networks. Behind these routing protocols is an architecture which outlines problems and goals, establishes a framework upon which to base the development of protocols, and provides a conceptual baseline for continued work on unsolved problems. This architecture defines routing in the OSI network layer, fun ...

12 The landmark hierarchy: a new hierarchy for routing in very large networks

P. F. Tsuchiya

August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols**, Volume 18 Issue 4

Full text available:  pdf(827.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Landmark Routing is a set of algorithms for routing in communications networks of arbitrary size. Landmark Routing is based on a new type of hierarchy, the Landmark Hierarchy. The Landmark Hierarchy exhibits path lengths and routing table sizes similar to those found in the traditional area or cluster hierarchy. The Landmark Hierarchy, however, is easier to dynamically configure using a distributed algorithm. It can therefore be used as the basis for algorithms that dynamically configure th ...

13 New dynamic algorithms for shortest path tree computation

Paolo Narváez, Kai-Yeung Siu, Hong-Yi Tzeng

December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6

Full text available:  pdf(251.39 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: routing, shortest path trees

14 RDMAR: a bandwidth-efficient routing protocol for mobile ad hoc networks

George Aggelou, Rahim Tafazolli

August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**

Full text available:  pdf(916.53 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: dynamic routing, mobile terminal, multihop networks

15 A simple approximation to minimum-delay routing

Srinivas Vutukury, J. J. Garcia-Luna-Aceves

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The conventional approach to routing in computer networks consists of using a heuristic to compute a single shortest path from a source to a destination. Single-path routing is very responsive to topological and link-cost changes; however, except under light traffic loads, the delays obtained with this type of routing are far from optimal. Furthermore, if link costs are associated with delays, single-path routing exhibits oscillatory behavior and becomes unstable as traffic loads increase. On th ...

16 Conservative simulation of load-balanced routing in a large ATM network model

C. D. Pham, H. Brunst, S. Fdida

July 1998 **ACM SIGSIM Simulation Digest , Proceedings of the twelfth workshop on Parallel and distributed simulation**, Volume 28 Issue 1

Full text available:  pdf(938.77 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 [An efficient routing protocol for wireless networks](#)

Shree Murthy, J. J. Garcia-Luna-Aceves

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Full text available:  [pdf\(562.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

We present the Wireless Routing Protocol (WRP). In WRP, routing nodes communicate the distance and second-to-last hop for each destination. WRP reduces the number of cases in which a temporary routing loop can occur, which accounts for its fast convergence properties. A detailed proof of correctness is presented and its performance is compared by simulation with the performance of the distributed Bellman-Ford Algorithm (DBF), DUAL (a loop-free distance-vector algorithm) and an Ideal Link-st ...

18 [A path-finding algorithm for loop-free routing](#)

J. J. Garcia-Luna-Aceves, Shree Murthy

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Full text available:  [pdf\(414.16 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: internetworking, loop freedom, routing, shortest path

19 [A routing protocol for packet radio networks](#)

Shree Murthy, J. J. Garcia-Luna-Aceves

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

Full text available:  [pdf\(962.31 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

20 [Highly dynamic Destination-Sequenced Distance-Vector routing \(DSDV\) for mobile computers](#)

Charles E. Perkins, Pravin Bhagwat

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications**, Volume 24 Issue 4

Full text available:  [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

An ad-hoc network is the cooperative engagement of a collection of Mobile Hosts without the required intervention of any centralized Access Point. In this paper we present an innovative design for the operation of such ad-hoc networks. The basic idea of the design is to operate each Mobile Host as a specialized router, which periodically advertises its view of the interconnection topology with other Mobile Hosts within the network. This amounts to a new sort of routing prot ...

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Terms used **response distribution** and **survey**

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1 [Interactive posters: internet: A taxonomic analysis of what world wide web activities significantly impact people's decisions and actions](#)

Julie B. Morrison, Peter Pirolli, Stuart K. Card

March 2001 **CHI '01 extended abstracts on Human factors in computing systems**

Full text available:  pdf(167.88 KB)

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In this paper, we present three taxonomic classification schemes based on Web users' responses to what Web activities significantly impacted their decisions and actions. The taxonomic classifications focus on three variables: the *Purpose* of people's search on the Web, the *Method* people use to find information, and the *Content* of the information for which they are searching. These taxonomies are useful for understanding people's activity on the Web and for developing ecologic ...

Keywords: information foraging, taxonomy, web usability

2 [Maximizable routing metrics](#)

Mohamed G. Gouda, Marco Schneider

August 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 4

Full text available:  pdf(600.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a simple theory for maximizable routing metrics. First, we give a formal definition of routing metrics and identify two important properties: boundedness and monotonicity. We show that these two properties are both necessary and sufficient for a routing metric to be maximizable in any network. We show how to combine two (or more) routing metrics into a single composite metric such that if the original metrics are both bounded and monotonic (and, hence, maximizable), then the composite ...

Keywords: communication system routing, communication system signaling, computer networks, distance vector, distributed algorithms, link state, protocols, routing, routing metrics, trees (graphs)

3 [Shortest paths and loop-free routing in dynamic networks](#)

B. Awerbuch

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols**, Volume 20

Full text available:  [pdf\(1.08 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we survey the existing methods for designing shortest paths routing algorithms for dynamic networks. We compare them based on worst-case communication and message complexity, and suggest new approach that yields a protocol with linear time and polynomial communication. The main idea behind our approach is to use a "dynamic synchronizer", which transforms a dynamic asynchronous network into static synchronous one. We believe this is an important methodol ...

4 [A dynamically-directed switch model for MOS logic simulation](#)

Dan Adler

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation**Full text available:  [pdf\(652.76 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A new model for MOS transistors suitable for logic simulation of VLSI circuits is presented based on the concept of a Dynamically Directed Switch (DDS). In this model, transistors are represented by directed edges in a graph, capable of changing their direction dynamically. A new distributed algorithm for switch-level simulation is presented based on an incremental graph algorithm where edge and vertex labels are updated as a consequence of circuit events. The result is a switch-level algor ...

5 [Contents of the Computer Communication Review 1970–1994](#)

David Oran

January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1Full text available:  [pdf\(1.75 MB\)](#)Additional Information: [full citation](#), [index terms](#)

6 [Techniques for evaluating the effectiveness of interactive computer service](#)

Marshall D. Abrams

January 1977 **Proceedings of the 1977 annual conference**Full text available:  [pdf\(572.76 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Three key system-independent functional measures of the effectiveness of interactive computer service are response time, turnaround time, and throughput. Measurement can be made under uncontrolled conditions using a communications monitor such as the NBS Network Measurement System and under controlled conditions using Remote Terminal Emulators. Additional measurement and test tools include accounting logs and programs, stopwatches, live operators, tape loops, and internal stimulators. A fea ...

7 [An analysis of advanced C.S. students' experience with software maintenance](#)

Donna M. Kaminski

February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**Full text available:  [pdf\(483.30 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Maintenance accounts for a very large portion of total software cost and effort in industry. Yet computer science students are seldom exposed to this in their training. This study investigated advanced CS students' reactions to doing a maintenance project. A survey was used to examine their attitudes towards doing maintenance, the maintenance strategies they used, the value of the experience, and their assessments of the maintainability of the original program. Most students found it a valu ...

8

[Alternate path routing for multicast](#)

Daniel Zappala

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Full text available:  pdf(336.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current network-layer multicast routing protocols build multicast trees based only on hop count and policy. If a tree cannot meet application requirements, the receivers have no alternative. In this paper, we propose a general and modular architecture that integrates alternate path routing with the network's multicast services. This enables individual multicast receivers to reroute a multicast tree according to their needs, subject to policy restrictions. Our design focuses on the two primary co ...

Keywords: alternate path routing, multicast routing, performance evaluation, quality of service (QoS).

9 Session IX - coordination and decision making: Chaos as coordination technology

F. De Cindio, G. De Michelis, C. Simone, R. Vassallo, A. M. Zanaboni

December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The need of supporting office work with suitable computer based tools implies the investigation of the deep aspects of cooperation within the office. Cooperation, to the extent that is made up of communication and coordination, can be fully characterized under the assumption that an office is a special linguistic game, constituted by a set of rules defining the conversations possible within it, continuously changing under the perturbations created by the speech acts its member do performing the ...

10 A new approach for asynchronous distributed rate control of elastic sessions in integrated packet networks

Santosh Paul Abraham, Anurag Kumar

February 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 1

Full text available:  pdf(322.22 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ABR switch algorithms, effective service capacity, explicit rate-based congestion control, stochastic approximation

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**Proceedings of the Survey Research Methods Section, American Statistical Association
(1993)**

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